QC ABSTRACT

NAME OF WORK: Construction and Developments of Roads in Kempegowda Ward No-01 of Yelahanka Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	RCC(M20)	Compressive Strength(7days and 28days)	7 set /150-200 cum	175.68	14	14

AE-1

AE

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/11/2020

Lab ID	:	CP-2020-12-18-49
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction and Developments of Roads in Kempegowda Ward No-01 of Yelahanka Sub Division
Agency	:	Sri. R. Lokesh (Sri Sai Asphalts) No:107, 2nd Main Road, Chikka Adugodi, Bangalore-560029
Customer's Reference	:	EE/YNK.D/EPMT-10/W.O/257/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-11-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	04/11/2020	11/11/2020	151.64 X 149.70 X 149.04	22700	8.458	416.3	18.3	18.4
2	Drain Side Wall Concrete	M20	04/11/2020	11/11/2020	150.12 X 150.30 X 150.35	22562	8.922	422.2	18.7	
3	Drain Side Wall Concrete	M20	04/11/2020	11/11/2020	150.68 X 151.41 X 149.14	22814	8.503	415.1	18.2	

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Authorized Signatory
Quality Manager

Page 1/1
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/11/2020

Lab ID	:	CP-2020-12-18-49
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction and Developments of Roads in Kempegowda Ward No-01 of Yelahanka Sub Division
Agency	:	Sri. R. Lokesh (Sri Sai Asphalts) No:107, 2nd Main Road, Chikka Adugodi, Bangalore-560029
Customer's Reference	:	EE/YNK.D/EPMT-10/W.O/257/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-11-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Side Wall Concrete	M20	04/11/2020	11/11/2020	151.25 X 151.84 X 151.69	22966	8.458	419.5	18.3	18.5
2	Drain Side Wall Concrete	M20	04/11/2020	11/11/2020	150.13 X 149.83 X 151.41	22493	8.922	408.8	18.2	
3	Drain Side Wall Concrete	M20	04/11/2020	11/11/2020	151.08 X 151.63 X 151.90	22908	8.503	435.1	19.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/12/2020

Lab ID	:	CP-2020-12-18-49
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction and Developments of Roads in Kempegowda Ward No-01 of Yelahanka Sub Division
Agency	:	Sri. R. Lokesh (Sri Sai Asphalts) No:107, 2nd Main Road, Chikka Adugodi, Bangalore-560029
Customer's Reference	:	EE/YNK.D/EPMT-10/W.O/257/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-11-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/12/2020

AB-1

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	04/11/2020	02/12/2020	150.00 X 149.80 X 151.39	22471	8.121	520.2	23.1	23.1
2	Drain Side Wall Concrete	M20	04/11/2020	02/12/2020	150.60 X 151.70 X 149.55	22846	8.751	520.0	22.8	
3	Drain Side Wall Concrete	M20	04/11/2020	02/12/2020	151.80 X 151.89 X 149.91	23057	8.080	538.1	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-12-18-49** **Date: 11/11/2020**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction and Developments of Roads in Kempegowda Ward No-01 of Yelahanka Sub Division
Agency	:	Sri. R. Lokesh (Sri Sai Asphalts) No:107, 2nd Main Road, Chikka Adugodi, Bangalore-560029
Customer's Reference	:	EE/YNK.D/EPMT-10/W.O/257/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-11-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	04/11/2020	11/11/2020	149.13 X 151.41 X 151.59	22580	8.458	427.8	18.9	18.8
2	Drain Side Wall Concrete	M20	04/11/2020	11/11/2020	149.32 X 149.83 X 150.86	22372	8.922	415.8	18.6	
3	Drain Side Wall Concrete	M20	04/11/2020	11/11/2020	151.04 X 151.91 X 150.64	22945	8.503	431.9	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-12-18-49** **Date: 02/12/2020**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction and Developments of Roads in Kempegowda Ward No-01 of Yelahanka Sub Division
Agency	:	Sri. R. Lokesh (Sri Sai Asphalts) No:107, 2nd Main Road, Chikka Adugodi, Bangalore-560029
Customer's Reference	:	EE/YNK.D/EPMT-10/W.O/257/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-11-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	04/11/2020	02/12/2020	149.39 X 149.16 X 151.81	22284	8.121	534.0	24.0	23.2
2	Drain Side Wall Concrete	M20	04/11/2020	02/12/2020	151.00 X 151.19 X 151.09	22829	8.751	513.1	22.5	
3	Drain Side Wall Concrete	M20	04/11/2020	02/12/2020	150.14 X 150.54 X 150.32	22602	8.080	525.3	23.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/11/2020

Lab ID	:	CP-2020-12-18-49
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction and Developments of Roads in Kempegowda Ward No-01 of Yelahanka Sub Division
Agency	:	Sri. R. Lokesh (Sri Sai Asphalts) No:107, 2nd Main Road, Chikka Adugodi, Bangalore-560029
Customer's Reference	:	EE/YNK.D/EPMT-10/W.O/257/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-11-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Bottom Slab Concrete	M20	31/10/2020	07/11/2020	151.63 X 149.36 X 149.75	22648	8.458	428.7	18.9	18.9
2	Drain Bottom Slab Concrete	M20	31/10/2020	07/11/2020	151.02 X 149.36 X 151.77	22556	8.922	424.6	18.8	
3	Drain Bottom Slab Concrete	M20	31/10/2020	07/11/2020	151.39 X 150.99 X 149.97	22859	8.503	431.3	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-12-18-49** **Date: 07/11/2020**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction and Developments of Roads in Kempegowda Ward No-01 of Yelahanka Sub Division
Agency	:	Sri. R. Lokesh (Sri Sai Asphalts) No:107, 2nd Main Road, Chikka Adugodi, Bangalore-560029
Customer's Reference	:	EE/YNK.D/EPMT-10/W.O/257/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-11-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
AE-1										
1	Drain Bottom Slab Concrete	M20	31/10/2020	07/11/2020	151.78 X 151.21 X 149.02	22951	8.458	429.8	18.7	18.4
2	Drain Bottom Slab Concrete	M20	31/10/2020	07/11/2020	150.85 X 149.08 X 149.15	22489	8.922	408.5	18.2	
3	Drain Bottom Slab Concrete	M20	31/10/2020	07/11/2020	151.00 X 150.12 X 149.71	22668	8.503	412.6	18.2	

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-12-18-49** **Date: 25-10-20**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction and Developments of Roads in Kempegowda Ward No-01 of Yelahanka Sub Division
Agency	:	Sri. R. Lokesh (Sri Sai Asphalts) No:107, 2nd Main Road, Chikka Adugodi, Bangalore-560029
Customer Reference	:	EE/YNK.D/EPMT-10/W.O/257/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-10-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	23-10-20

AE-1

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2799	3034	60.7	39.3	25-55
4	4.75 mm	1856	4890	97.8	2.2	0-10
5	Pan	110	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-12-18-49** **Date: 27-10-20**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction and Developments of Roads in Kempegowda Ward No-01 of Yelahanka Sub Division
Agency	:	Sri. R. Lokesh (Sri Sai Asphalts) No:107, 2nd Main Road, Chikka Adugodi, Bangalore-560029
Customer's Reference	:	EE/YNK.D/EPMT-10/W.O/257/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	23-10-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	23-10-20

AE-1

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	238	238	1.6	98.4	90-100
3	20 mm	7448	7686	51.2	48.8	30-70
4	10 mm	5488	13174	87.8	12.2	10-35
5	4.75 mm	1495	14669	97.8	2.2	0-5
6	Pan	331	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2020-12-18-49 **Date: 21-11-20**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction and Developments of Roads in Kempegowda Ward No-01 of Yelahanka Sub Division
Agency	:	Sri. R. Lokesh (Sri Sai Asphalts) No:107, 2nd Main Road, Chikka Adugodi, Bangalore-560029
Customer's Reference	:	EE/YNK.D/EPMT-10/W.O/257/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-10-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	24-10-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.0N/mm^2	Not less than 53 N/mm^2

AE-1

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2020-12-18-49 **Date: 27-10-20**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction and Developments of Roads in Kempegowda Ward No-01 of Yelahanka Sub Division
Agency	:	Sri. R. Lokesh (Sri Sai Asphalts) No:107, 2nd Main Road, Chikka Adugodi, Bangalore-560029
Customer's Reference	:	EE/YNK.D/EPMT-10/W.O/257/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-10-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	24-10-20
Environmental Conditions during test	:	Temperature: 29°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.05	–
2	Finess by Air permeablity method (m^2/kg,Min)	293.5	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****